The listing of claims will replace all prior versions, and listings, of claims

in the application:

Listing of Claims:

1. (Canceled)

2. (Canceled)

3. (Currently Amended) An optical pickup device for writing data

or reading data recorded on an optical disk, said optical pickup device

comprising:

a laser light source for emitting a laser beam for writing data or reading

data;

photodetectors having light-receiving portions for respectively receiving a

laser beam reflected by recording surfaces of a plurality of layers of the optical

disk; and

an optical system for guiding to the optical disk the laser beam emitted

from the laser light source, and guiding to the photodetectors the laser beam

reflected by the optical disk;

said optical system having:

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a half mirror for reflecting or transmitting a laser beam emitted from the

laser light source, and transmitting or reflecting the light reflected from the

optical disk;

a collimator lens for converting the laser beam reflected or transmitted by

the half mirror into parallel light;

an object lens for condensing the laser beam converted to parallel light by

the collimator lens onto the recording surfaces of the optical disk, having a

curvature or refractive index that varies by steps in the radial direction, and

comprising a multifocal lens for focusing on recording surfaces of the optical disk;

and

a diffraction grating for diffracting a part of the laser beam transmitted

through the half mirror and guiding the laser beam to at least one of the light-

receiving portions; wherein

the object lens condenses the laser beam emitted from the laser light

source onto the recording surfaces of the optical disk, and

the diffraction grating guides light reflected by the recording surfaces to a

plurality of light-receiving portions, so as to simultaneously read or write data to

the recording surfaces, and the diffraction grating granting being spatially

separated from the half mirror.

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4. (Previously Presented) An optical disk playback device

comprising:

the optical pickup device according to claim 3;

playback means for simultaneously reading data recorded on recording

surfaces of a plurality of layers of an optical disk by means of the optical pickup

device and playing back data of one of the recording surfaces; and

storage means for saving data of another of the recording surfaces.

5. (Previously Presented) The optical pickup device of claim 3,

wherein the collimator lens is interposed between the half mirror and the optical

disk and wherein the object lens is interposed between the collimator lens and

the optical disk.

6. (Withdrawn) The optical pickup device of claim 3, wherein the

diffraction grating is arranged on a beam splitter.

7. (Withdrawn) An optical pickup device comprising:

a laser light source that emits a laser beam for writing data or reading

data;

a photodetector having light-receiving portions that respectively receive a

laser beam reflected by recording surfaces of a plurality of layers of the optical

disk; and

an optical system that guides the laser beam to the optical disk, and

guides the laser beam reflected by the optical disk to the photodetector, the

optical system comprising

a half mirror that reflects or transmits a laser beam emitted from the

laser light source, and transmits or reflects the light reflected from the optical

disk;

a collimator lens that converts the laser beam reflected or transmitted by

the half mirror into parallel light, and that converts the laser beam reflected by

the optical disk from a parallel light into a non-parallel light;

an object lens that condenses the laser beam converted to parallel light by

the collimator lens onto the recording surfaces of the optical disk, having a

curvature or refractive index that varies by steps in the radial direction, and

comprising a multifocal lens that focuses on recording surfaces of the optical

disk; and

a diffraction grating that diffracts a part of the laser beam transmitted

through the half mirror and guides the laser beam to one of the light-receiving

portions of the photodetector, wherein the diffraction grating guides light

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reflected by the recording surfaces to one of the light receiving portions, so as to

simultaneously read or write data to the recording surfaces.

8. (Withdrawn) The optical pickup device of claim 7, wherein the

diffraction grating is attached to the half mirror.

9. (Withdrawn) The optical pickup device of claim 7, wherein the

diffraction grating is spatially separate from the half mirror.

10. (Withdrawn)The optical pickup device of claim 9, further

comprising:

a beam splitter, wherein the diffraction grating is attached to the

beam splitter.

11. (Withdrawn) The optical pickup device of claim 7, wherein the

photodetector is a first and second photodetector, each having a light receiving

portion.

Claims 12-16 (Canceled)

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a laser light source that emits a laser beam for writing data to an optical

disk or reading data from the optical disk;

photodetectors having light-receiving portions that respectively receive a

laser beam reflected by recording surfaces of a plurality of layers of the optical

disk;

a half mirror, arranged between the laser light source and photodetectors,

that reflects or transmits a laser beam emitted from the laser light source, and

transmits or reflects the light reflected from the optical disk;

a collimator lens that converts the laser beam reflected or transmitted by

the half mirror into parallel light;

an object lens that condenses the laser beam converted to parallel light by

the collimator lens onto the recording surfaces of the optical disk, wherein the

object lens is a multifocal lens that focuses on recording surfaces of the optical

disk and has a curvature or refractive index that varies by steps in the radial

direction; and

a diffraction grating, arranged between the photodetectors and the half

mirror and spatially separated from the half mirror, that diffracts a part of the

laser beam transmitted through the half mirror and guides the laser beam to at

least one of the light-receiving portions, wherein the diffraction grating guides

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light reflected by the recording surfaces to a plurality of light-receiving portions,

so as to simultaneously read or write data to the recording surfaces.

18. (New) The optical disk playback device of claim 17, wherein the

collimator lens is interposed between the half mirror and the optical disk and

wherein the object lens is interposed between the collimator lens and the optical

disk.

19. (New) The optical disk playback device of claim 18, comprising:

playback means for simultaneously reading data recorded on recording

surfaces of a plurality of layers of an optical disk by means of the optical pickup

device and playing back data of one of the recording surfaces; and

storage means for saving data of another of the recording surfaces.

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